**FIELD MODEL**

name : String

type : String : quality / amount / percent / datetime / location

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getName( : String)

getType( : String)

**DATASOURCE MODEL**

name (of city/state) : String

Datasets : Set<Dataset>

getDatasets( : Set<Dataset>)

getName( : String)

**DATASET MODEL**

tags : Set<String> : splitting the dataset’s name and also including the dataset’s Fields’ names

fields : Set<Field>

endpoint : String : the url to access the data as a JSON

getTags( : Set<String>)

getFields( : Set<Field>)

**VISUALIZATION MODEL**

type : String : i.e. bar, pie, histogram

fieldNum : Integer : number of fields needed

fieldTypes : Array[String]

getType( : String)

getFieldNum( : Integer)

getFieldTypes( : Array[String])

**MAIN APPLICATION**

findLocation (String : Datasource)

search(String, Datasource : Set<Dataset>)

getFields(Dataset : Set<Field>)

getPossibleVisualizations(Set<Field> : Set<Visualization>)

getDataPoints(Dataset, Set<Field> : JSONArray)